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kai Tokkys 8 Oct 194: re prepd. b) re, powder .0001-0.0024 oly(ethylene [127-09-3] n 3.6:1 in the

are manufd by mixing heat-resistant polymers, carbon, and glass, heating the mixt, to soften and fuss it, mixing in particles of hard metal oxides, nitrides, and/or carbides and optionally magnetic materials, and compression molding the compn. Thus, 5 parts nylon 6 [25038-54-4] and 1.5 parts poly(methylstyrens) (9017-21-4) were mixed at 400° with 15 parts carbon fibers, then with powd. graphite 25, glass beads 5, 510₂ 16, TiC 10, TiN 5, and silans coupling agents 5 parts, and compression molded into bars which after polishing had above extractive nurses.

25. glass beads 5, SiO₂ 15, TiC 10, TiN 5, and allans coupling agents 5 parts, and compression molded into bers which after polishing had glossy, attractive surfaces.

100: 122442x Polypropylene films for shrink packaging. Mitsui Petrochemical Industries, Ltd. Jpn. Tokkyo Koho JP 88 45,976 [83 45,976] (Cl. CO8L23/10), 18 Oct 1963, Appl. 78/43,399, 30 Apr 1976; 5 pp. The title films are prepd. by extruding mixts. of 70-85% cryst. propylene polymers and 5-30% 5-20-30-51-butene-octhylene random copolymer [1] [25087-34-7] (prepd. by V compd.-catalyzed polymn., d. 0.86-0.92) and biaxially drawing 3-10:1. Thua, a mixt. of 90% 8:94 ethylene-propylene copolymer [9010-79-1] [melt index [MI] 6.0 (230°)] and 10% 12:88 I [MI 10.0 (190°)] was extruded to a 1.0-mm sheet which was drawn 5:1 biaxially oriented film with hase 0.8%, abrinkage 10% (80°), impact strength 2200 kg-cm/cm (after shrinkage, at room temp.), min. film-forming temp. 120°, and Young's modulus 17,000 kg/cm², compared with 1.0, 5, 2000, 180°, and 18,000, resp., without I. 100: 122443a Polyethylene cable lanulation. Hitachi Cabla, Ltd. Jpn. Kokai Tokkyo Koho JP 58,184,206 [83,184,206] (Cl. HO187/28), 27 Oct 1983, Appl. 82/66,999, 21 Apr 1982; 3 pp. Conductors are insulated with crosslinked, high-pressure polyethylene (10) [9002-89-4] (d. 0.925-0.935, malt index >0.5) to give wires and cables. Thus, a cable jacketed with I (d. 0.927, melt index 1) contg. 25 phr cumyl peroxide and 0.2 phr 4.4"-thiobis(6-tert-butyl-8-methylphanol) was left 18 mo. in water at 50 Hz and 3 kV with formation of 3200 trees/cm², compared with >10s for a cable prepd. from I with d. 0.920 and melt index 1.

100: 12244b Paper-based electric insulators. Hitachi Cable, i.d. Jpn. Kokai Tokkyo Koho JP 58,184,211 [83,184,211] (Cl. Hollsis/Od), 27 Oct 1983, Appl. 82/67,639, 22 Apr 1882; 2 pp. Swelling resistant high-tenacity paper-based elec. insulators are prepd. by coating paper with a polyolefin extrudate and then suctioning the material to cause penetration of the polyolefin into the aper.

swelling resistant high-tenacity paper-based elec. Insulators are preed, by coating paper with a polyolefin extrudate and then preed, by coating paper with a polyolefin extrudate and then pept.

100: 127446c Electric insulation. Mitsubishi Heavy Industries, 100: 127446c Electric cinsulation. Mitsubishi Heavy Industries, 100: 127446c Electric cinsulation. Mitsubishi Heavy Industries, 100: 127446c Electric cinsulation. Mitsubishi Heavy Industries, 100: 12746c Electric cinsulation between a Cu plate and a rough steel plate can be unproved by insertion of an insulating layer which is coated with a unsaid polyester coating material layer contg. glass flakes and a polyester reain putty, an epoxy resin putty, or the like. Thus, an unsaid polyester coating material layer contg. glass flakes and a colyester putty layer were bonded to a Cu plate by means of an acrylic adhesive to give a plate having good elec. insulation, tensils ashesive shear strength 120 kg/cm², and peel strength 16 kg/25 mm. 100: 122446d Adhesive tape. Matner, Martin: Stahl, Hans Georg. Labrocki, Karl (Bayer A.-C.) Ger. Offen. DE 3,220,486 (Cl. 10247/02). 69 Dec 1883, Appl. 03 Jun 1982; 12 pp. A polyester is used as a primer on a PVC [9002-86-2] or polypropylene 1900-67-0] film to improve the adhesion to an adhesive in the preps. of adhesive tapes. The polyester is applied in an aquiperson, eliminating the use of org. solvents previously used. The adhesive is a natural rubber-roain ester mixt., a styram-acrylate salv copylenger, etc. Thus, PVC (film was costed with a margination of a polyester (1.5 g/L³), dried at 60°, coated with a margination of a polyester (1.5 g/L³), dried at 60°, coated with a margination of a polyester (1.5 g/L²), dried at 60°, coated with a margination of a polyester (1.5 g/L²), dried at 60°, coated with a margination of a polyester (1.5 g/L²), dried at 60°, coated with a margination of a polyester (1.5 g/L²), dried at 60°, coated with a margination of a polyester (1.5 g/L²), dried at 60°, coated with a margination of a polyes

100: 122449g Ios exchangers selective for boron. Maier, Mircoa; Cracium, Vasile (Combinatul Chimic, Victoria) Rom. RO 81,229 (Cl. CO8F12/36), 30 Jan 1983, Appl. 102,933, 24 Dec 1980; 2 pp. B-selective anion exchangers are meanufel by aminating chloromethylated polymers with N-mathylgiucamins (I) at 80-95° in DMF [65-12-2] or DMF-water mixts. Thus, 270 mL styrene, 43 mL 46% divinylbenzene, 18.6 mL acrylonitrile, 3 g Br.O., and 45 g polystyrene (II, mol. wt. 73,000) were added to 1000 mL water, 2 g polytvinyl alc.), and 20 g NaCl under stirring, and the reaction mixt. was treated 4 h at 70° and 4 h at 90° to give a copolymer that was extel. with dichlorosthane to remove II and chloromathylated to give a macroporous product contg. 19.18% Cl. 270 ML DMF contg. 150 g I was added to 150 ml. DMF contg. 60 g chloromethylated copolymer at 80°, and the mixt was heated 4.5 h at 90° with stirring to give a weakly basic anion exchanger with total volumetric capacity 1.37 meq/ml., mech. atrength 98%, camotic-shock stability 98.5%, and B-retention capacity 24.5 mg/ml. in an aq. soln. with aslinity 0-1000 mequiv NaCl/L.

capacity ≥4.5 mg/mL in an eq. soln. with salinity 0-1000 mequiv NaCl/L.

100: 122459a Antistatic protective paper coverings for decorative plastic sheets. Daio Kakoshi Kogyo K. K. Jpn. Kokai Tokkyo Kaho JP 58,191,777 (83,191,777) (Cl. C09J7/02), 09 Nov 1983, Appl. 82/76,216, 06 May 1982; 4 pp. Antistatic adhesive paper for protection of a plastic sheet, preventing dust attraction and leaving no stains on the decorative plastic surface after pecling, is prepd. from a water-sol. synthetic and/or natural polymer adhesive contg. a surfactant. Thus, kraft paper (40 g/m³), coated (at 10 g/m³) with an adhesive compn. comprising 20% aq. poly(uiny) elc.) (I) [9002-68-5] 100, polyethylene glycol 5, and 30% aq. anionic surfactant 10 parts, was sprayed with steam and applied to a PVC [9002-86-2] sheet for ≥24 h at 20° and 65% relative humidity. The PVC sheet, after removal of the paper, exhibited surface resistivity 1.7 × 10½ Ω at 500 V, half-life for electrostatic charge dissipation 5.1 a at 1 kV, and ash accumulation after 20 rubbing cycles 0 cm (all at 20° and 65% relative humidity), compared with ≥1.6 × 10¼ Ω, ≥2 min, and 6.0 cm, reap., when an adhesive comprising only I was used.

100: 122451b Electrically conductive adhesive pastes. TDK Corp. Jpn. Kokai Tokkyo Koho JP 58,196,280 [83,196,280] (Cl. C09J3/14), 15 Nov 1833, Appl. 82/79,583, 12 May 1932; 3 pp. A chip-shaped condenser is joined to a printed circuit board at room temp. in a short time without temporary attachment using an acrylic polymer-based anserobic adhesive paste contg. an elsc. conductive powder.

powder.

100: 122452c Amino resin adhasives. Nisshin Flour Milling Co.,
Ltd. Jpn. Rekai Tokkye Koho JP 58,196,281 [83,198,281] (Cl.
CO9J3/16), 15 Nov 1983, Appl 62/78,420, 12 May 1982; 4 pp.
A stable amino resin adhesive compn. maintaining high viscosity and

CO9J3/16), 15 Nov 1983, Appl. 82/78,420, 12 May 1982; 4 pp. A stable amino resin adhesive compn. maintaining high viscosity and homogeneity for a long time contains a rice or corn flour and CM-cellulose and/or No alginate [9005-88-3]. Thus, an adhesive mixt. comprising urea-formaldehyde resin [9011-05-6] 100, rice flour (\$100 mesh) 25, Cellogen [9004-32-4] 0.25, water 18, and NHcCl 0.3 part formed a homogeneous soln. and exhibited viscosity 21 P initially and 22 P after 180 min. compared with 18 and 98 P, resp., when the compn. did not contain rice flour.

100: 122453d Melamine resin decorative boards. Alca Kogyo Co., Ltd. Jpn. Kelksi Tokkyo Kobo JP 53,197,053; [83,197,053] (Cl. B32B27/42), 16 Nov 1983, Appl. 82/79,582, 12 May 1982; 3 pp. Nonbrittle decorative boards are manufd. in a process suitable for continuous produ. by laminating core aheets of paper impregnated with rapid-curing melamins-phenolic resin compns. and surface sheet impregnated with melamine resins. Thus, four sheets of 120-g/m² kraft paper impregnated with melamine resins content were placed over a surface sheet of 500-g/m² -cellulose paper impregnated with melamine resin initial condensate to 80% resin content were placed over a surface sheet of 500-g/m² -cellulose paper impregnated with melamine resin initial condensate to 80% resin content, and presend af 140° and 30 kg/cm² for 10 s to obtain a laminate which could be bent to min. radius 8 mm without cracking, compared with 10 mm for a board prepd. similarly using phenolic resol-impregnated core sheets, which required 30 min to cure.

for a board prepd similarly using phenolic resol-impregnated core absets, which required 30 min to cure.

100: 122454e Stretched laminated plastic containers. Toyobo Co., Ltd. Jpn. Rokal Tokkyo Roho JP 53,197,050 [53,197,050] (Cl. B32B27/86), 16 Nov 1983, Appl. 82/80,781, 12 May 1982; 6 pp. Gas-barrier containers having excellent mech. strength and durability comprised laminates of an ethylene terephthalate polyester inner layer, a gas-barrier layer of 5-85% thermoplastic polyesters and 5-96% m-xylylene group-conts, polyemides (SM), and optionally a waterproof polymer outer layer, oriented by stretching in 21 direction. Thus, injection molded plates of polyethylene terephthalate) (I) [25038-59-9] (intrinsic viscosity 0.75 dL/g in 6.4 PhOH/ChHcle at 80°), 2:8 SM/I mixt, and I were laminated to form parisons having inner, barrier, and outer layer thicknesses 1.3, 1.4 and 1.3 mm, resp., which were heated to 110° and blow molded at 20 kg/cm² to form 1-L bottles 265 mm high and 80 mm in diam, which had O gas permeability 8.0 cm³/m³-day-atm., stoam permeability 0.6 g/m²-day, inner-barrier layer adhesion 830 g/cm, and barrier-outer layer adhesion 838 g/cm, compared with 1.8 cm²/m³ day-atm., 0.8 g/m³-day, ~0 g/cm and ~0 g/cm, resp., for bottles prepd. identically using a 100%-8M barrier layer.

100: 1224556 Composite plastic sheets. Denki Kagaku Kogyo K. K. Jpn. Kokai Tokkyo Koho JP 58,197,049 [83,197,049] (Cl. B32B27/80), 16 Nov 1983, Appl. 82/80,176, 14 May 1882; 6 pp. Laminates of styrene polymers with polyolefins have improved adhesion if the styrene polymers with polyolefins have improved adhesion if the styrene polymers with polyolefins have improved adhesion if the styrene polymers with polyolefins have improved adhesion if the styrene polymer is blended with 4-80% block butadiene-styrene copolymer (II) [9003-55-8] and 5-30% olefin polymers. Thus, polytyrene (III) [9003-55-8] and 5-30% olefin polymers.

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